

## RESIDENTIAL MECHANICAL PLANS REVIEW CHECKLIST

Heat loss should be no more than 40% above the calculated load. Heat gain should be no more than 15% above the calculated load  Calculated CFM:  HEAT PUMP: Sensible Heat Ratio (SHR) Temperature Difference (TD)  SHR - Sensible load / Total load = SHR below .80		Winter		Summer			
Insulation R – Values:  Attic: R - 38	Outdoor	22 degrees F  If different	92 d	egrees F	If different		
Attic: R - 38	Indoor	72 degrees F If different	75 d	egrees F	If different		
Floors: R - 19	Insulation R – V	'alues:					
Building Orientation:  Specify Shading Factor Type:  OR 45 Degrees Default  Calculated Heat Loss  and Heat Gain Tot.  Heat loss should be no more than 40% above the calculated load. Heat gain should be no more than 15% above the calculated load  Calculated CFM:  HEAT PUMP: Sensible Heat Ratio (SHR) Temperature Difference (TD)  SHR TD Table  SHR below .80 21 TE  SHR .8085 19 TE  SHR above .85 17 TE  GAS FURNACE:  CFM - Output BTU's / 1.1 X Average temperature rise =							
Specify Shading Factor Type:OR 45 Degrees Default	Occupant Load	Bedrooms + 1 =					
Calculated Heat Loss and Heat Gain Tot Sen Lat	Building Orient	ation:					
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Calculated CFM:           HEAT PUMP: Sensible Heat Ratio (SHR) Temperature Difference (TD)           SHR - Sensible load/ Total load	Heat loss sho	ould be no more than 40% above the calcula	nted load.				
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SHR TD Table         SHR - Sensible load / Total load =			D.100 (TD.)				
CFM - Sensible load/ 1.1 X TD =	HEAT PUMP: S	Sensible Heat Ratio (SHR) Temperature	Difference (TD)		SHR TD	Table	
CFM - Sensible load/ 1.1 X TD =       SHR above .85       17 TD         GAS FURNACE:       CFM - Output BTU's / 1.1 X Average temperature rise =	SHR - Sensible l	oad / Total load		SHR	below .80	21 TE	
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CFM - Output BTU's / 1.1 X Average temperature rise =	CITIVI - SCHSTOIC			SHR	above .85	17 TE	
		;					
Heat Loss and Heat Gain Tot Sen of Selected Equipment			ure rise =				
		TU's/ 1.1 X Average temperat					